ANALYTICAL REPORT

SEVERN
TRENT
SERVICES

STL North Canton 4101 Shuffel Drive NW

North Canton, OH 44720-6961

Tel: 330 497 9396 Fax: 330 497 0772 www.stl-inc.com

RIVERDALE

Lot #: A0H250146

Rae Mindock

RMT 222 South Riverside Plaza Suite 820 Chicago, IL 60606

SEVERN TRENT LABORATORIES, INC.

with J hum
Kenneth J. Kuzior
Project Manager

September 5, 2000

CASE NARRATIVE

A0H250146

The following report contains the analytical results for eleven solid samples submitted to STL North Canton by RMT from the Riverdale Site. The samples were received on August 25, 2000, according to documented sample acceptance procedures.

The samples submitted for the CLP analysis are reported under separate cover.

STL North Canton utilizes USEPA approved methods in all analytical work. The samples presented in this report were analyzed for the parameters listed on the analytical methods summary page in accordance with the methods indicated. A summary of QC data for these analyses is included at the rear of the report.

The results included in this report have been reviewed for compliance with the laboratory QA/QC plan. All data have been found to be compliant with laboratory protocol.

ANALYTICAL METHODS SUMMARY

A0H250146

PARAMET	ER	ANALYTICAL METHOD
-	hlorine Pesticides esidue as Percent Solids	SW846 8081A MCAWW 160.3 MOD
Referen	ces:	•
MCAWW	"Methods for Chemical Analysis of EPA-600/4-79-020, March 1983 and	
SW846	"Test Methods for Evaluating Soli Methods", Third Edition, November	

SAMPLE SUMMARY

A0H250146

WO #	SAMPLE	CLIENT SAMPLE ID	DATE	TIME
DJEEJ	001	SL33-1.2'	. 08/24/00	10:45
DJEEV	002	SL33-3.5'	08/24/00	10:55
DJEEW	003	SL34-1.2'	08/24/00	11:05
DJEF1	004	SL34-3.5'	08/24/00	11:15
DJEF2	005	SL35-1'	08/24/00	11:20
DJEF3	006	SL35-4.5'	08/24/00	11:25
DJEF5	007	SL36-1.2'	08/24/00	11:30
DJEF6	008	SL36-4.5'	08/24/00	11:35
DJEF7	009	SL37-6.2'	08/23/00	14:15
DJEF9	010	SL38-6.2'	08/23/00	14:25
DJEFA	011	SL39~6.2'	08/24/00	14:15

NOTE (S):

- The analytical results of the samples listed above are presented on the following pages.
- All calculations are performed before rounding to avoid round-off errors in calculated results.
- Results noted as "ND" were not detected at or above the stated limit.
- This report must not be reproduced, except in full, without the written approval of the laboratory.
- Results for the following parameters are never reported on a dry weight basis: color, corrosivity, density, flashpoint, ignitability, layers, odor, paint filter test, pH, porosity pressure, reactivity, redox potential, specific gravity, apot tests, solids, solubility, temperature, viscosity, and weight.

Client Sample ID: SL33-1.2'

GC Semivolatiles

Lot-Sample #: A0H250146-0	01 Work Order #: DJEEJ101	Matrix: SO

Date Sampled...: 08/24/00 10:45 Date Received..: 08/25/00 Prep Date....: 08/25/00 Analysis Date..: 08/30/00

Prep Batch #...: 0238216 Dilution Factor: 10000

* Moisture....: 20

Method.....: SW846 8081A

		REPORTING	
PARAMETER	RESULT	LIMIT	UNITS
Aldrin	770000	21000	ug/kg
alpha-Chlordane	ND	21000	ug/kg
gamma-Chlordane	ND	21000	ug/kg
Dieldrin	ND	21000	ug/kg
Heptachlor	24000	21000	ug/kg
Heptachlor epoxide	ND	21000	ug/kg
Toxaphene	ND	830000	ug/kg
	PERCENT	RECOVERY	
SURROGATE	RECOVERY	LIMITS	-
Tetrachloro-m-xylene	0.0 DIL,*	(31 - 131)	
Decachlorobiphenyl	0.0 DIL,*	(18 - 145)	

NOTE(S):

DIL The concentration is estimated or not reported due to dilution or the presence of interfering analyses.

Surrogate recovery is outside stated control limits.

Client Sample ID: SL33-3.5'

GC Semivolatiles

Lot-Sample #: A0H250146-002	Work Order #: DJEEV101	Matrix: SO

Date Sampled...: 08/24/00 10:55 Date Received..: 08/25/00 Prep Date....: 08/25/00 Analysis Date..: 08/30/00

Prep Batch #...: 0238216

Dilution Factor: 5

* Moisture....: 26 Method....: SW846 8081A

		REPORTING	
PARAMETER	RESULT	LIMIT	UNITS
Aldrin	380	11	ug/kg
alpha-Chlordane	16	11	ug/kg
gamma-Chlordane	50	11	ug/kg
Dieldrin	160	11	ug/kg
Heptachlor	35	11	ug/kg
Heptachlor epoxide	ND	11	ug/kg
Toxaphene	ND	450	ug/kg
	PERCENT	RECOVERY	
SURROGATE	RECOVERY	LIMITS	_
Tetrachloro-m-xylene	180 DIL,*	(31 - 131)
Decachlorobiphenyl	234 DIL,*	(18 - 145))

NOTE (S):

DIL. The concentration is estimated or not reported due to dilution or the presence of interfering analytes.

Surrogate recovery is outside stated control limits.

Client Sample ID: SL34-1.2'

GC Semivolatiles

Lot-Sample #: A0H250146-003 Date Sampled: 08/24/00 11:05 Prep Date: 08/25/00 Prep Batch #: 0238216 Dilution Factor: 2500		08/25/00	Matrix: SO
* Moisture: 18	Method:	SW846 8081	A
		REPORTING	
PARAMETER	RESULT	LIMIT	UNITS
Aldrin	24000	5200	ug/kg
alpha-Chlordane	67000	5200	ug/kg
gamma-Chlordane	89000	5200	ug/kg
Dieldrin	33000	5200	ug/kg
Heptachlor	26000	5200	ug/kg
Heptachlor epoxide	ND	5200	ug/kg
Toxaphene	ND	200000	ug/kg
	PERCENT	RECOVERY	
SURROGATE	RECOVERY	LIMITS	
Tetrachloro-m-xylene	0.0 DIL,*	(31 - 131)	
Decachlorobiphenyl	0.0 DIL,*	(18 - 145)	

NOTE (S):

DIL The concentration is estimated or not reported due to dilution or the presence of interfering analytes.

^{*} Surrogate recovery is outside stated control limits.

Client Sample ID: SL34-3.5'

GC Semivolatiles

Lot-Sample #: A0H250146-004	Work Order #: DJEF1101	Matrix: SO
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Date Sampled...: 08/24/00 11:15 Date Received..: 08/25/00 Prep Date....: 08/25/00 Analysis Date..: 08/28/00

Prep Batch #...: 0238216

Dilution Factor: 1

* Moisture....: 24 Method.....: SW846 8081A

		REPORTING	
PARAMETER	RESULT	LIMIT	<u>UNITS</u>
Aldrin	ND	2.2	ug/kg
alpha-Chlordane	ND	2.2	ug/kg
gamma-Chlordane	ND	2.2	ug/kg
Dieldrin	ND	2.2	ug/kg
Heptachlor	ND	2.2	ug/kg
Heptachlor epoxide	ND	2.2	ug/kg
Toxaphene	ND	88	ug/kg
	PERCENT	RECOVERY	
SURROGATE	RECOVERY	LIMITS	_
Tetrachloro-m-xylene	56	(31 - 131)	_
Decachlorobiphenyl	60	(18 - 145)	1

NOTE (S):

Client Sample ID: SL35-1'

GC Semivolatiles

Lot-Sample #:	A0H250146-005	Work Order #:	DJEF2101	Matrix \$0
Date Sampled:	08/24/00 11:20	Date Received:	08/25/00	
Prep Date:	08/25/00	Analysis Date:	08/29/00	

Prep Date....: 08/25/00 Prep Batch #...: 0238216

Dilution Factor: 50

* Moisture....: 20 Method....: SW846 8081A

		REPORTING	
PARAMETER	RESULT	LIMIT	UNITS
Aldrin	1100	110	ug/kg
alpha-Chlordane	120	110	ug/kg
gamma-Chlordane	410	110	ug/kg
Dieldrin	3400	110	ug/kg
Heptachlor	ND	110	ug/kg
Heptachlor epoxide	150	110	ug/kg
Toxaphene	ND	4200	ug/kg
	PERCENT	RECOVERY	
SURROGATE	RECOVERY	LIMITS	_
Tetrachloro-m-xylene	0.0 DIL,*	(31 - 131)
Decachlorobiphenyl	0.0 DIL,*	(18 - 145))

NOTE (S):

DIL The concentration is estimated or not reported due to dilution or the presence of interfering analytes.

Surrogate recovery is outside stated control limits.

Client Sample ID: SL35-4.5'

GC Semivolatiles

Lot-Sample #: A0H250146-006	Work Order #: DJEF3101	Matrix SO
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Date Sampled...: 08/24/00 11:25 Date Received..: 08/25/00 Prep Date....: 08/25/00 Analysis Date..: 08/30/00

Prep Batch #...: 0238216

Dilution Factor: 10

* Moisture....: 26 Method....: SW846 8081A

		REPORTING	G
PARAMETER	RESULT	LIMIT_	UNITS
Aldrin	440	23	ug/kg
alpha-Chlordane	45	23	ug/kg
yamma-Chlordane	71	23	ug/kg
Dieldrin	550	23	ug/kg
Meptachlor	38	23	ug/kg
eptachlor epoxide	ND	23	ug/kg
oxaphene	ND	900	ug/kg
	PERCENT	RECOVERY	
URROGATE	RECOVERY	LIMITS	
etrachloro-m-xylene	0.0 DIL,*	(31 - 13:	1)
ecachlorobiphenvl	0.0 DIL.*	(18 - 149	5)

NOTE(S):

DIL The concentration is estimated or not reported due to dilution or the presence of interfering analytes.

Surrogate recovery is outside stated control limits.

Client Sample ID: SL36-1.2'

GC Semivolatiles

Lot-Sample #:	A0H250146-007	Work Order #: DJEF5101	Matrix: SO

Date Sampled...: 08/24/00 11:30 Date Received..: 08/25/00 Prep Date....: 08/25/00 Analysis Date..: 08/30/00

Prep Batch #...: 0238216 Dilution Factor: 2500

* Moisture....: 20 Method.....: SW846 8081A

		REPORTING	
PARAMETER	RESULT	LIMIT	UNITS
Aldrin	19000	5300	ug/kg
alpha-Chlordane	59000	5300	ug/kg
gamma-Chlordane	72000	5300	ug/kg
Dieldrin	25000	5300	ug/kg
Heptachlor	35000	5300	ug/kg
Heptachlor epoxide	ND	5300	ug/kg
Toxaphene	ND	210000	ug/kg
	PERCENT	RECOVERY	
SURROGATE	RECOVERY	LIMITS	_
Tetrachloro-m-xylene	0.0 DIL, *	(31 - 131)	_
Decachlorobiphenyl	0.0 DIL,*	(18 - 145)	

NOTE (S):

Results and reporting limits have been adjusted for dry weight.

DIL The concentration is estimated or not reported due to dilution or the presence of interfering analytes.

Surrogate recovery is outside stated control limits.

Client Sample ID: SL36-4.5'

GC Semivolatiles

Analysis Date..: 08/30/00

Lot-Sample #:	A0H250146-008	Work Order #: DJEF6101	Matrix: SO
Date Sampled:	08/24/00 11:35	Date Received: 08/25/00	

Prep Date....: 08/25/00

Prep Batch #...: 0238216

Dilution Factor: 250

Method....: SW846 8081A * Moisture....: 25

		REPORTING	
PARAMETER	RESULT	LIMIT	UNITS
Aldrin	5700	560	ug/kg
alpha-Chlordane	6400	560	ug/kg
gamma-Chlordane	8100	560	ug/kg
Dieldrin	2900	560	ug/kg
Heptachlor	5400	560	ug/kg
Heptachlor epoxide	ND	560	ug/kg
Toxaphene	ND	22000	ug/kg
	PERCENT	RECOVERY	
SURROGATE	RECOVERY	LIMITS	_
Tetrachloro-m-xylene	0.0 DIL,*	(31 ~ 131)	
Decachlorobiphenyl	0.0 DIL,*	(18 ~ 145)	

Note (s):

DIL The concentration is estimated or not reported due to dilution or the presence of interfering analytes.

Surrogate recovery is outside stated control limits.

Client Sample ID: SL37-6.2'

GC Semivolatiles

Lot-Sample #: A0H250146-009	Work Order #: DJEF7101	Matrix SO
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Date Sampled...: 08/23/00 14:15 Date Received..: 08/25/00 Prep Date....: 08/25/00 Analysis Date..: 08/28/00

Prep Batch #...: 0238216

Dilution Factor: 1

* Moisture....: 22 Method.....: SW846 8081A

		REPORTING	
PARAMETER	RESULT	LIMIT	UNITS
Heptachlor	ND	2.2	ug/kg
Aldrin	ND	2.2	ug/kg
alpha-Chlordane	ND	2.2	ug/kg
gamma-Chlordane	ND	2.2	ug/kg
Dieldrin	ND	2.2	ug/kg
Heptachlor epoxide	ND	2.2	ug/kg
Toxaphene	ND	86	ug/kg
	PERCENT	RECOVERY	
SURROGATE	RECOVERY	LIMITS	_
Tetrachloro-m-xylene	69	(31 - 131)	_
Decachlorobiphenyl	73	(18 - 145))

NOTE (S):

Results and reporting limits have been adjusted for dry weight.

Client Sample ID: SL38-6.2'

GC Semivolatiles

Lot-Sample #:	A0H250146-010	Work Order #: DJEF9101	Matrix SO

Date Sampled...: 08/23/00 14:25 Date Received..: 08/25/00 Prep Date....: 08/25/00 Analysis Date..: 08/28/00

Prep Batch #...: 0238216

Dilution Factor: 1

* Moisture....: 16 Method.....: SW846 8081A

		REPORTING	
PARAMETER	RESULT	LIMIT	UNITS
Aldrin	ND	2.0	ug/kg
alpha-Chlordane	ND	2.0	ug/kg
gamma-Chlordane	ND	2.0	ug/kg
Dieldrin	ND	2.0	ug/kg
Heptachlor	ND	2.0	ug/kg
Heptachlor epoxide	ND	2.0	ug/kg
Toxaphene	ND	79	ug/kg
	PERCENT	RECOVERY	
SURROGATE	RECOVERY	LIMITS	_
Tetrachloro-m-xylene	67	(31 - 131))
Decachlorobiphenyl	73	(18 - 145))

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

Client Sample ID: SL39-6.2'

GC Semivolatiles

Lot-Sample #: A0H250146-011	Work Order #: DJEFA101	Matrix: SO
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Date Sampled...: 08/24/00 14:15 Date Received..: 08/25/00 Prep Date....: 08/25/00 Analysis Date..: 08/28/00

Prep Batch #...: 0238216

Dilution Factor: 1

* Moisture....: 15 Method.....: SW846 8081A

		REPORTIN	īG
PARAMETER	RESULT	LIMIT	UNITS
Aldrin	ND	2.0	ug/kg
alpha-Chlordane	ND	2.0	ug/kg
gamma-Chlordane	ND	2.0	ug/kg
Dieldrin	ND	2.0	ug/kg
Heptachlor	ND	2.0	ug/kg
Heptachlor epoxide	ND	2.0	ug/kg
Toxaphene	ND	79	ug/kg
	PERCENT	RECOVERY	•
SURROGATE	RECOVERY	LIMITS	
Tetrachloro-m-xylene	61	(31 - 13	1)
Decachlorobiphenyl	65	(18 - 14	5)

NOTE (S):

Results and reporting limits have been adjusted for dry weight.

QUALITY CONTROL SECTION

OUALITY CONTROL ELEMENTS OF SW-846 METHODS

STL North Canton conducts a quality assurance/quality control (QA/QC) program designed to provide scientifically valid and legally defensible data. Toward this end, several types of quality control indicators are incorporated into the QA/QC program, which is described in detail in QA Policy, QA-003. These indicators are introduced into the sample testing process to provide a mechanism for the assessment of the analytical data.

OC BATCH

Environmental samples are taken through the testing process in groups called QUALITY CONTROL BATCHES (QC batches). A QC batch contains up to twenty environmental samples of a similar matrix (water, soil) that are processed using the same reagents and standards. STL North Canton requires that each environmental sample be associated with a QC batch.

Several quality control samples are included in each QC batch and are processed identically to the twenty environmental samples. These QC samples include a METHOD BLANK (MB), a LABORATORY CONTROL SAMPLE (LCS) and, where appropriate, a MATRIX SPIKE/MATRIX SPIKE DUPLICATE (MS/MSD) pair or a MATRIX SPIKE/SAMPLE DUPLICATE (MS/DU) pair. If there is insufficient sample to perform an MS/MSD or an MS/DU, then a LABORATORY CONTROL SAMPLE DUPLICATE (LCSD) is included in the QC batch.

LABORATORY CONTROL SAMPLE

The Laboratory Control Sample is a QC sample that is created by adding known concentrations of a full or partial set of target analytes to a matrix similar to that of the environmental samples in the QC batch. The LCS analyte recovery results are used to monitor the analytical process and provide evidence that the laboratory is performing the method within acceptable guidelines. All control analytes indicated by a bold type in the LCS must meet acceptance criteria. Failure to meet the established recovery guidelines requires the repreparation and reanalysis of all samples in the QC batch. The only exception is that if the LCS recoveries are biased high and the associated sample is ND for the parameter(s) of interest, the batch is acceptable.

At times, a Laboratory Control Sample Duplicate (LCSD) is also included in the QC batch. An LCSD is a QC sample that is created and handled identically to the LCS. Analyte recovery data from the LCSD is assessed in the same way as that of the LCS. The LCSD recoveries, together with the LCS recoveries, are used to determine the reproducibility (precision) of the analytical system. Precision data are expressed as relative percent differences (RPDs). If the RPD fails for an LCS/LCSD and yet the recoveries are within acceptance criteria, the batch is still acceptable.

METHOD BLANK

The Method Blank is a QC sample consisting of all the reagents used in analyzing the environmental samples contained in the QC batch. Method Blank results are used to determine if interference or contamination in the analytical system could lead to the reporting of false positive data or elevated analyte concentrations. All target analytes must be below the reporting limits (RL), the analytes were greater than 10 times the blank level for organics or 20 times for inorganics, or the associated sample(s) must be ND except for the common laboratory contaminants indicated below.

Volatile (GC or GC/MS)	Semivolatile (GC/MS)	Metals
Methylene chloride Acetone 2-Butanone	Phthalate Esters	Copper Iron Zinc Lead*

^{*} for analyses run on TJA Trace ICP only

The listed volatile and semivolatile compounds may be present in concentrations up to 5 times the reporting limits. Failure to meet these Method Blank criteria requires the repreparation and reanalysis of all samples in the QC batch.

QUALITY CONTROL ELEMENTS OF SW-846 METHODS (Continued)

MATRIX SPIKE/MATRIX SPIKE DUPLICATE

A Matrix Spike and a Matrix Spike Duplicate are a pair of environmental samples to which known concentrations of a full or partial set of target analytes are added. The MS/MSD results are determined in the same manner as the results of the environmental sample used to prepare the MS/MSD. The analyte recoveries and the relative percent differences (RPDs) of the recoveries are calculated and used to evaluate the effect of the sample matrix on the analytical results. Due to the potential variability of the matrix of each sample, the MS/MSD results may not have an immediate bearing on any samples except the one spiked; therefore, the associated batch MS/MSD may not reflect the same compounds as the samples contained in the analytical report. When these MS/MSD results fail to meet acceptance criteria, the data is evaluated. If the LCS is within acceptance criteria, the batch is considered acceptable. The acceptance criteria does not apply to samples that are diluted for organics if the native sample amount is 4x the concentration of the spike for inorganics.

For certain methods, a Matrix Spike/Sample Duplicate (MS/DU) may be included in the QC batch in place of the MS/MSD. For the parameters (i.e. pH, ignitability) where it is not possible to prepare a spiked sample, a Sample Duplicate may be included in the QC batch. However, a Sample Duplicate is less likely to provide usable precision statistics depending on the likelihood of finding concentrations below the standard reporting limit. When the Sample Duplicate result fails to meet acceptance criteria, the data is evaluated.

SURROGATE COMPOUNDS

In addition to these batch-related QC indicators, each organic environmental and QC sample are spiked with surrogate compounds. Surrogates are organic chemicals that behave similarly to the analytes of interest and that are rarely present in the environment. Surrogate recoveries are used to monitor the individual performance of a sample in the analytical system.

If the surrogate recoveries are outside criteria for environmental or MS/MSD samples, the batch is acceptable if the Method Blank, LCS, and LCSD surrogate recoveries are within acceptance criteria. The only exception is if the surrogate recoveries are biased high in the LCS, LCSD, or the Method Blank and the associated sample(s) are ND, the batch is acceptable. If the LCS, LCSD, or Method Blank surrogate(s) fail to meet recovery criteria, the entire sample batch is reprepared and reanalyzed.

For the GC/MS BNA methods, the surrogate criterion is that two of the three surrogates for each fraction must meet acceptance criteria. The third surrogate must have a recovery of ten percent or greater.

For the Pesticide/PCB, PAH, and Herbicide methods, the surrogate criteria is that one of two surrogate compounds meet acceptance criteria.

STL North Canton, Certifications and Approvals:

Alabama (#41170), California (#2157), Connecticut (#PH-0590), Florida (#E87225) — Florida CompQAPP (#890651G), Kentucky (#90021), Massachusetts (#M-0H048), Maryland (#272), Minnesota (#39-999-348), Missouri (#6090), New Jersey (#74001), New York (#10975), North Carolina (39702), North Dakota (#R-156), Ohio (#6090), OhioVAP (#CL0024), Pennsylvania (#68-340), South Carolina (#92007001, #92007002, #92007003), Tennessee (#02903), West Virginia (#210), Wisconsin (#999518190), NAVY, ARMY, USDA Soil Permit, ACIL Seal of Excellence

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LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC Semivolatiles

Client Lot #...: A0H250146 Work Order #...: DJEFM102-LCS Matrix.....: SOLID

LCS Lot-Sample#: A0H250000~216 DJEFM103-LCSD

Prep Date....: 08/25/00 Analysis Date..: 08/28/00

Prep Batch #...: 0238216

Dilution Factor: 1

	PERCENT	RECOVERY		RPD					
PARAMETER	RECOVERY	LIMITS	RPD	LIMITS	METHOD				
Heptachlor	76	(39 - 126)			SW846 8081A				
	71	(39 - 126)	6.B	(0-44)	SW846 8081A				
Aldrin	79	(39 - 122)			SW846 B081A				
	74	(39 - 122)	6.9	(0-40)	SW846 8081A				
Dieldrin	74	(45 - 128)			SW846 8081A				
	68	(45 - 128)	8.2	(0-33)	SW846 8081A				
gamma-BHC (Lindane)	74	(47 - 130)			SW846 8081A				
	68	(47 - 130)	8.0	(0-36)	SW846 8081A				
Endrin	86	(47 - 133)			SW846 8081A				
	79	(47 - 133)	8.4	(0-38)	SW846 8081A				
4,4'-DDT	79	(35 - 144)			SW846 8081A				
	72	(35 - 144)	8.2	(0-42)	SW846 8081A				
		PERCENT	RECOVE	ERY					
SURROGATE		RECOVERY	LIMITS	3					
Tetrachloro-m-xylene		70	(31 -	131)					
-		67	(31 -	131)					
Decachlorobiphenyl		77	(18 -	145}					
-		73	(18 -	145)					

Note(s):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

METHOD BLANK REPORT

GC Semivolatiles

Client Lot #...: A0H250146

Work Order #...: DJEFM101

Matrix....: SOLID

MB Lot-Sample #: A0H250000-216

Prep Date....: 08/25/00 Prep Batch #...: 0238216

Analysis Date..: 08/28/00 Pre

Dilution Factor: 1

REPORTING

			TEL OTTO									
PARAMETER	RESULT	LIMIT	UNITS	METHOD								
Aldrin	ND	1.7	ug/kg	SW846 8081A								
alpha-Chlordane	ND	1.7	ug/kg	SW846 8081A								
gamma-Chlordane	ND	1.7	ug/kg	SW846 8081A								
Dieldrin	ND	1.7	ug/kg	SW846 8081A								
Heptachlor	ND	1.7	ug/kg	SW846 8081A								
Heptachlor epoxide	ND	1.7	ug/kg	SW846 8081A								
Toxaphene	ND	67	ug/kg	SW846 8081A								
	PERCENT	RECOVER	¥									
SURROGATE	RECOVERY	LIMITS										
Tetrachloro-m-xylene	69	(31 - 13	31)									
Decachlorobiphenyl	75	(18 - 14	45)									

NOTE (S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Chain of Custody Record

DISTRIBUTION: WHITE - Stays with the Sample; CANARY - Returned to Client with Report; PINK - Field Copy



2UA-4124 0797 Client												<u> </u>															
			Project Manager							Date							Chain of Custody Number 1735										
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Sample I.D. No. and Description (Containers for each sample may be combined on	one line)	Date	Time	Aqueous	Sed	Sol	Unpres	HZSO4	HNOS	ğ	250	70,00	40	3485													
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2417 Bond Safeet X University Park: 11/60-666 Phore: 708-634-5200 Fax: 708-534-5211 SL = Sludge MS = Miscellaneous QL = QF W * Water S = Soil RELINGUISHED BY Project Location: WW = Waster Laboratory PK: Aredal C Project Name: Sampler Name Chicago Laboratory SLARL take sevs Ö AS-MSD Airerda 12 r Success Waldy 5136-45 5138-62 5137-62 5136-1.2 139-62 K Key
Sediment
SE Sold
SO = Sold
DS = Drum Solid
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3. HNC3, Cool to 4*
4. NeOH, Cool to 4*
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Coc* X K × g Contact: BIN To: Phone: Company: TOWNERS BY COMMON COMPANY COMMENTS: THE CHARGE BA Plaza 217 PMI 3 H 25.5 355 'n 20.14 7 Qual granide 0200 0300 loc minded 220 *10C: N.Canbo Toxaphene He bachdoc Shaded Areas For Internal Use Only 2, of 2 Received on loa Package Sealed Sample Labels and COC Agree Chlorebar pH Check ok Within Hold Time Yes No Temperature Lab Lot# Yes No Yes No Yes Yo Additional Analyses / Remarks Bill of Lading Courier Date Received STL Chicago Chain of Custody: CH-22-08-2317/Spik R (Technical) the physical in the policy 3 റ് R COC not present Presery. Indicated
Yes No NA Samples Intact Samples Sealed Res. Cl₂ Check ok of Cooler Yes No Yes No Hand Delivered Dieldon 80 Nart C